

REMARKS

Applicants respectfully request reconsideration of the present application in view of the foregoing amendments and in view of the reasons that follow.

Amendments to the Abstract:

The Abstract has been amended to place it in better form for U.S. Patent Practice.

Amendments to the Specification:

The specification has been amended to correct the minor informalities noted on page 2 of the Office Action, as well as other minor informalities.

Status of Claims:

No claims are currently being cancelled.

Claim 1 is currently being amended.

Claim 4 is currently being added.

This amendment amends and adds claims in this application. A detailed listing of all claims that are, or were, in the application, irrespective of whether the claims remain under examination in the application, is presented, with an appropriate defined status identifier.

After amending the claims as set forth above, claims 1-4 are now pending in this application.

Claim Rejections:

In the Office Action, claims 1-3 were rejected under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent No. 6,490,273 to DeNap. This rejection, to the extent that it may be applied to presently pending claims 1-3, is traversed for at least the reasons given below.

Although a function for outputting calling signals to a voice device, for example, when the calling message is detected, is disclosed in DeNap, as is clear from the disclosure in column 14, line 66 to column 15, line 8, when detecting offhook of the voice device on the side of a hub 1204 in a service node 120, the

hub itself generates calling signals and supplies the calling signals to the voice device as voice output. In DeNap, although there are many unclear points relating to the positional relation of the hub 1204, it is clear that the hub itself includes a portion for generating audible signals for voice communication, such as calling signals, whether the hub 1204 is located in a business hub or in the service node.

In contrast, in the present invention, when the connection control means performs connection control of a telephone call path in an ATM circuit and when the voice device is brought into a calling state, the interexchange circuit interface means and the voice circuit interface means are connected, and a cell that the interexchange circuit interface means receives, that is, the cell of the audible signals for voice communication such as calling signals from a PBX is decelled, and the audible signals for voice communication are delivered as a voice output to the voice device via the voice circuit interface means. Therefore, without providing a function for generating the audible signals for voice communication additionally, the PBX of a partner side required for a signaling control of the voice communication or the audible signals for voice communication, such as the calling signals or busy signals to be delivered from a voice device, can be provided to the voice device on a sender side without changing existing equipment.

In contrast, according to the technology disclosed in DeNap, when detecting offhook of a voice device on the side of a hub 1204 in a service node 120, the hub itself generates the calling signals, and supplies the calling signals to the voice device as a voice output. This is much different from the presently claimed invention.

Therefore, the present invention according to claim 1 is much different from the disclosure of DeNap in that the cells of audible signals for voice communication that the interexchange circuit interface means receives from the ATM circuit is decelled and, in order to transmit the audible signals for voice communication to the voice device, the audible signals for voice communication

are delivered to the voice circuit interface means starting from a moment when the voice device is changed from a calling state to a talking state.

DeNap does not disclose or suggest any of the above-stated features of claim 1.

Claims 2 and 3 are patentable due their dependency on claim 1, as well as for the specific features recited in those claims.

New Claim 4:

New claim 4 has been added to recite additional features of the present invention that are believed to patentably distinguish over the cited art of record. Support for new claim 4 may be found at least on page 7, lines 9-14 of the specification and in Figure 2 of the drawings.

Conclusion:

Since there are no other objections or rejections raised in the Office Action that have not been addressed in this Amendment and Reply, Applicants believe that the present application is now in condition for allowance, and an early indication of allowance is respectfully requested.

The Examiner is invited to contact the undersigned by telephone if it is felt that a telephone interview would advance the prosecution of the present application.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

If any extensions of time are needed for timely acceptance of papers submitted herewith, Applicant hereby petitions for such extension under 37 C.F.R. §1.136 and authorizes payment of any such extensions fees to Deposit Account No. 19-0741.

Respectfully submitted,

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By Phillip J. Articola

FOLEY & LARDNER LLP
Washington Harbour
3000 K Street, N.W., Suite 500
Washington, D.C. 20007-5143
Telephone: (202) 672-5300
Facsimile: (202) 672-5399

Phillip J. Articola
Registration No. 38,819

ABSTRACT

The An ATM equipment ~~according to the present invention is composed of includes~~ a voice circuit interfacing section {310} connecting to voice devices, an interexchange channel interfacing section {320} connecting ATM lines, a cell composing and decomposing section 313 ~~celling~~ voice signals from the voice circuit interfacing section {310} and also decelling a cell received from the interexchange channel interfacing section {320} to produce voice signals, a SVC control section {360} performing connecting/cutting control of a telephone call path in the ATM lines by a switch type virtual connection method, and a main control section {340} connecting the interexchange channel interfacing section {320} to the voice circuit interfacing section {310} when the voice devices are called in the case when the SVC control section {360} performs the connecting and cutting control of the telephone call path in the ATM lines, ~~so that the ATM equipment can deliver well a ringback signal, a busy signal, or the like sent out from a telephone exchange or a voice terminal of a destination side to a caller in connection control of the inter-work of the telephone exchange or the voice terminal required for the signaling control of the voice communications.~~

ABSTRACT

An ATM equipment includes a voice circuit interfacing section connecting to voice devices, an interexchange channel interfacing section connecting ATM lines, a cell composing and decomposing section celling voice signals from the voice circuit interfacing section and also decelling a cell received from the interexchange channel interfacing section to produce voice signals, a SVC control section performing connecting/cutting control of a telephone call path in the ATM lines by a switch type virtual connection method, and a main control section connecting the interexchange channel interfacing section to the voice circuit interfacing section when the voice devices are called in the case when the SVC control section performs the connecting and cutting control of the telephone call path in the ATM lines.